

ABSTRACT OF THE DISCLOSURE

A mesoporous silica/fluorinated polymer composite material. Made up of hydrophobic modified mesoporous silica with a pore size of 0.1 to 50nm and a fluorinated polymer, to
5 provide $D_k < 4$, $D_f < 0.04$, and $CTE < 60\text{ppm}$, the material is suitable for use in printed circuit boards or substrates in high frequency applications.